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CENTRAL INTELLIGENCE AGENCY

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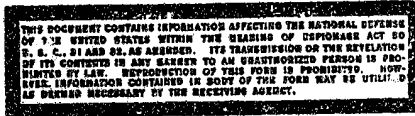
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NEW TECHNIQUE IN THE PRODUCTION OF BEARINGS

S. Pinegin, Director
Bearing Industry Scientific Research Institute

The Scientific Research Institute of the Bearing Industry in the past year has completed large-scale works of a practical nature. In cooperation with workers in the bearing plants it has made several improvements in bearing manufacture.

Chernavskiy, Candidate in Technical Sciences, has developed a four-way universal device for machining raceways, resulting in a saving of metal up to 39 percent and an increase in productivity up to 70 percent. This method is being applied successfully in Bearing Plants No 1 and No 8. According to an order of the Minister of the Automobile and Tractor Industry, the new method must be applied to production in all enterprises of the bearing industry.

The method of lapping ball bearings, introduced in Bearing Plant No 1 named L. M. Kaganovich and in the Saratov and Kharkov Plants, resulted in a threefold increase in labor productivity.

Naroditskiy, Candidate in Technical Sciences, after applying the mathematical theory of elasticity, solved the problem of the most efficient depth of case-hardening for bearing raceways, which is especially important for the production of large raceways, the case-hardening time of which runs up to 250 hours.

Bolonova, Candidate in Technical Sciences, and Klyuchev, engineer, worked out a plan for an improved standard method of producing precision bearings.

The new method of manufacturing bearings, as applied in the ball-bearing shop of Plant No 1, made possible a 39 percent increase in labor efficiency, a better quality of ball bearings, and almost complete elimination of flaws in these parts.

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It is to be regretted that some research projects were delayed because of the inadequacy of our experimental facilities. The Ministry of the Automobile and Tractor Industry has for a long time been unable to resolve the problem of expanding the productive and experimental facilities of the Institute.

For 1948, the Institute has planned a program which consists of projects most important to the industry, the majority of which will be worked out in cooperation with the plants. In addition, a work plan for the application of the new method has been drawn up, and is being carried out by the plants under the supervision of the Institute. It has also been decided to put into practice measures to modernize technological processes in five plants.

A group of scientific workers, together with the production workers, has pledged to save not less than 10 million rubles as a result of the application of the new technological processes. Assistance will be given to Plants No 1 and 2 in Moscow and to the Saratov and Knyazhev Bearing Plants in mastering the production of the new kinds of bearings.

We hope that workers of the plants will take advantage of the opportunity of joint work with the Scientific Research Institute. This, of course, will enable them to achieve new progress in the attempt to fulfill the Five-Year Plan in 4 years.

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